

CLAIMS

What is claimed is:

- 5 1. A method for determining the resolution of blood glucose, comprises:
- a analogy signal source from the blood glucose solution being transferred into the amplifier circuit which comprising a resistance, a referenced resistance and a referenced voltage;
- 10 transforming said analogy signal source to be a digital signal;
- treating said digital signal;
- transferring out said digital signal with a rising curve which would get a peak value of said rising curve; and
- calculating said resolution of blood glucose according to said
- 15 resistance, said referenced resistance, said referenced voltage and said peak value.
2. The method according to claim 1, wherein said analogy signal source coming from a chemical reaction caused by placing the
- 20 blood glucose solution reacts on the test strip having catalyst.
3. The method accordance with claim 2, wherein said chemical reaction comprising an oxidation reduction reaction.

4. The method accordance with claim 1, wherein said transforming said analogy signal source comprising transferring said analogy signal source through a analogy front end (AFE)

5 5. The method according to claim 1, wherein said peak value being the difference between the first time (t_1) and the initial time (t_0) and said difference being larger than zero.

6. The method according to claim 1, wherein comprising a
10 average peak value calculating the plurality of said peak value after a pre-setting sampling time.

7. The method according to claim 1, wherein comprising a mapping table of said outputted voltage and said plurality of peak
15 value from the plurality of said rising curves.

8. A method for determining the resolution of blood glucose, comprises:

providing the blood glucose solution reacts on the test strip to
20 product a analogy signal source;

transferring said analogy signal source into a measuring circuit;

transforming said analogy signal source to be a digital signal;

transferring out said digital signal with a rising curve;

calculating a average peak value on a peak point of said rising curve after a pre-setting sampling time; and

calculating said resolution of blood glucose according to said average peak value.

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9. The method according to claim 8, which said test strip containing catalyst.

10. The method accordance with claim 8, wherein the method of producing said analogy signal source comprising an oxidation reduction reaction.

11. The method accordance with claim 8, wherein said measuring circuit comprising a resistance, a reference resistance and a reference voltage.

12. The method accordance with claim 8, wherein said transforming said analogy signal source comprising transferring said analogy signal source through a analogy front end (AFE).

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13. The method according to claim 8, wherein comprising calculating a peak value of said rising curve.

14. The method according to claim 13, wherein said peak

value being the difference between the first time (t_1) and the initial time (t_0) and said difference being larger than zero.

15. The method according to claim 8, wherein calculating said
5 resolution of blood glucose according to said average peak value further comprising according to said resistance, said reference resistance and said reference voltage.

16. A method for determining the resolution of blood glucose,
10 comprises:

providing the blood glucose solution reacts on the test strip having enzyme to product a analogy signal source;

transferring said analogy signal source into a measurement circuit;

15 transforming said analogy signal source to be a digital signal;

transferring out said digital signal with a rising curve;

calculating a peak value of said rising curve; and

making a mapping table of said peak value and a outputted voltage.

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17. The method accordance with claim 16, wherein the method of producing said analogy signal source comprising an oxidation reduction reaction.

18. The method accordance with claim 16, wherein said transforming said analogy signal source comprising transferring said analogy signal source through a analogy front end (AFE).

5 19. The method accordance with claim 16, wherein said measuring circuit comprising a resistance.

20. The method accordance with claim 16, wherein said measuring circuit comprising a reference resistance.

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21. The method accordance with claim 16, wherein said measuring circuit comprising a reference voltage.

22. The method accordance with claim 16, wherein said
15 outputted voltage being determined by said reference voltage.